

CLAIMS

1. A method of quantifying a substrate in a sample which comprises performing an enzyme reaction and a redox reaction between a reaction reagent comprising at least a dehydrogenase, a coenzyme, an electron mediator and a tetrazolium salt and the sample, and detecting a formazan formed as the final reaction product by using an electrode system made of electrically conductive materials.

2. The method as claimed in Claim 1 wherein said substrate is alanine, an alcohol, an aldehyde, isocitric acid, uridine-5'-diphospho-glucose, galactose, formic acid, glyceraldehyde-3-phosphate, glycerol, glycerol-3-phosphate, glucose, glucose-6-phosphate, glutamic acid, cholesterol, sarcosine, sorbitol, carbonic acid, lactic acid, 3-hydroxybutyric acid, pyruvic acid, phenylalanine, fructose, 6-phosphogluconic acid, formaldehyde, mannitol, malic acid or leucine.

3. The method as claimed in Claim 1 wherein said formazan is electrochemically changed by applying a certain potential to said electrode system and the thus arising response current is detected.

4. A biosensor for detecting said formazan by using the method as claimed in Claim 1 wherein said reaction reagent and electrode system consisting of at least a working electrode and a counter electrode made of electrically conductive materials are integrated.

5. The biosensor as claimed in Claim 4 wherein said formazan is electrochemically changed by applying a certain

potential to said electrode system and the thus arising
response current is detected.

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